

**DROPLET TRANSPORTATION DEVICES AND METHODS HAVING A FLUID
SURFACE**

ABSTRACT OF DISCLOSURE

5 Devices for the manipulation of a suspended particle in an electric field gradient
include a plurality of electrically isolated electrodes on a surface. A liquid composition is on
the plurality of electrodes. The liquid composition covers the surface continuously between
adjacent ones of the plurality of electrodes. The liquid composition has an exposed liquid
surface for suspending a particle. The plurality of electrodes are configured to provide an
10 electric field gradient for transporting the particle suspended in said liquid composition.